GEM® GIANNI INDUSTRIES, INC.
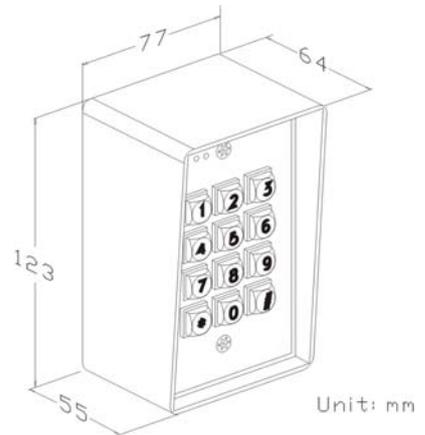
DG-15 series Digital Keypad Entry system
Operation User's Manual

1. Specifications:

- Operating Voltage: 12 Vdc
- Current Draw: Average 15mA, Peak 100mA @ 12Vdc
- Input: request-to-exit, time out reed switch contact
- Output: Dual relays, N.O./N.C./Com. Output (free voltage contact)
- Relays Electric Current: 2A MAX @30Vdc ；0.4A @ 120Vac
- Relay Activation Time:
  - Relay 1 time delay setting code「＊30」、Relay 2 setting code「＊31」
  - Strike Time: 1~99 seconds（adjustable）
  - Strike mode: Access Timer or Latch
- Memory Volume: 20+1 PIN codes
  - Relay 1 is controlled by ＊01~＊20 user slots
  - Relay 2 is controlled by ＊21 user slots
- Operating Temperature: -20~+70℃
- Ambient Humidity: 5~95% relative humidity non-condensing
- Factory Master Code: 12345
- Invalid PIN Lock-out: The system will shut down for 60 seconds while 30 codes of incorrectly Master Codes enrolled or PIN codes attempted（None beeper signal of keypad activations）.
- EPROM: Non-volatile memory, System will retain all programs and codes after a total loss of power.
- The indicator signal chart:

LED signal		Sound signal	
Green LED	Power on, stand-by	1 Beep	Effective PIN codes、Any key pressed
Red LED	Relay 1 activated	2 Beeps	Entering 、Exiting from the Program mode
Yellow LED	Relay 2 activated	3 Beeps	Data computing error
		5 Beeps	Master Code reset to Factory （12345）

2. Operation Instruction:

- **Enter Program Mode:**
  1. Compose twice the master code (4 digit format press「1234」、5 digit format press「12345」) → 2 beeps → you are now in the "programming mode".
  2. After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode.
- **Exiting from the program mode:**
  1. Press「#」to exit from the programming mode.
  2. After 30 wrong codes attempts at the master code the lockout facility will operate.
- **Add PIN codes**
  Enter the Programming mode, Enter the slot position code 「＊01~＊20」→????? Input 5 digit （or 4 digit） PIN codes→ (beep) enrolled → （repeat）
  Press 「#」 to exit from the programming mode, or program other operating.
  Note 1: The codes「0000」,「00000」,「1234」,「12345」or master code are not be used for PIN code.
  Note 2: Relay 2 is controlled by ＊21 user slots
- **To Delete a User Code：**

Enter the Programming mode→ Press the slot position code of your choice to delete (example "06") →Press「＊06」→「0000」（or「00000」）→（beep）→delete→ Press「#」to exit from the programming mode, or programming other operating.

◆ To Program Relocking Timer
Enter the Programming mode,

A. Relay 1：Press「＊30」Followed by the number of seconds the relay should open→「05」=5 seconds（01 ~99 = seconds,「00」Sets the relay to latching mode）→（beep）→enrolled→ Press 「#」to exit from the programming mode, or program other operating.

B. Relay 2：Press「＊31」Followed by the number of seconds the relay should open）→「05 =5 seconds (01 ~99 = seconds,「00」Sets the relay to latching mode).→（beep）→enrolled→ Press 「#」to exit from the programming mode, or program other operating.

C. Latching mode: Correct code entered opens the relay, and the relay stays open until the correct code is entered again.

◆ Changing the Master codes:
Enter the Programming mode, Enter「＊00」Followed by the new 4 digit （or 5 digit）master code→（beep）→enrolled→Enter 「#」to exit from the programming mode, or program other operating.
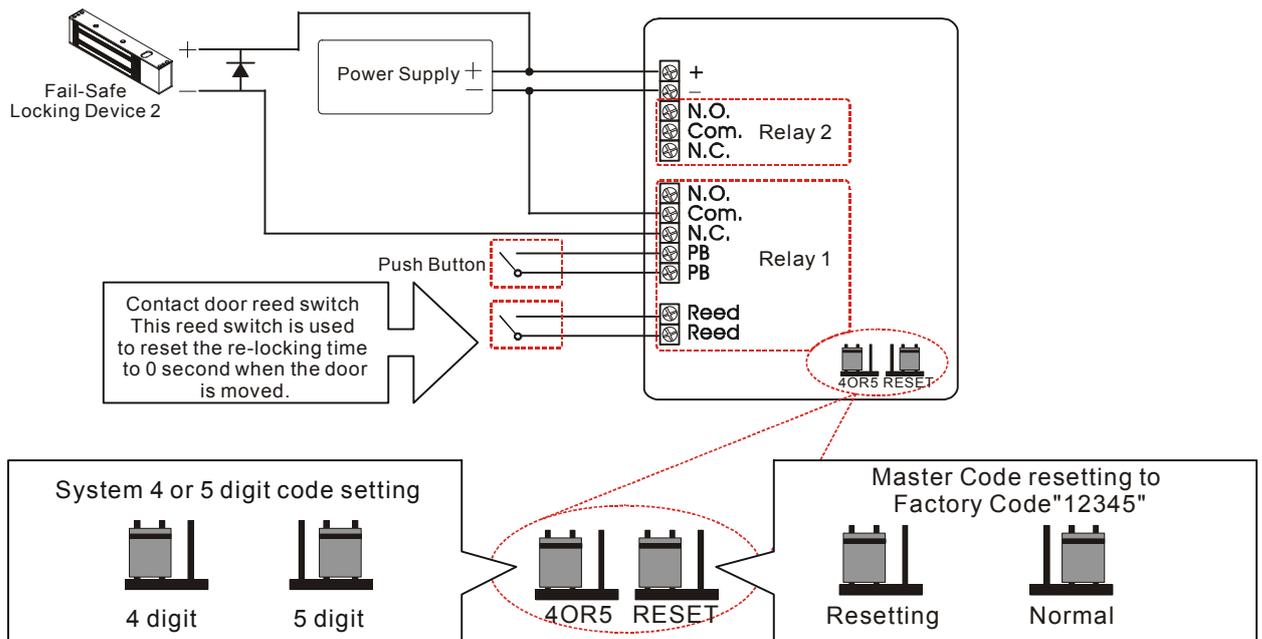
◆ Reset to Factory
■ Master Code reset to Factory 「12345」
Insert the jumper RESET→ 1-2 position→5 audible beeps→Reset successful→ Return Insert the jumper to 2-3 position

■ Remove all stored information
Insert the jumper RESET→ 1-2 position→5 audible beeps→ Master Code reset to Factory 「12345」→ after 5 seconds→5 audible beeps→ Remove all stored information → Return Insert the jumper to 2-3 position.

Note: If you only wish to reset the Master Code to the Factory default, remove the jumper after exactly 5 audible beeps, otherwise all cards / codes will be deleted.

3. Wiring diagram:

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Note:
◆ The suggested wire gauge is #22~26 AWG.
◆ The varistor or diode must be connected across the lock terminal (electromagnet...) operated by the device. The vartistor controls the overload produced by the strike coil (EMP).
◆ Egresses switch should be N.O. type.
◆ REED contact input for anti-trailing（Relay 1）. Contact door reed switch, this reed switch is used to reset the re-locking time to 0 second when the door is moved. Using N.O. contact in case of door closed changeover to N.C. When door is moved.